

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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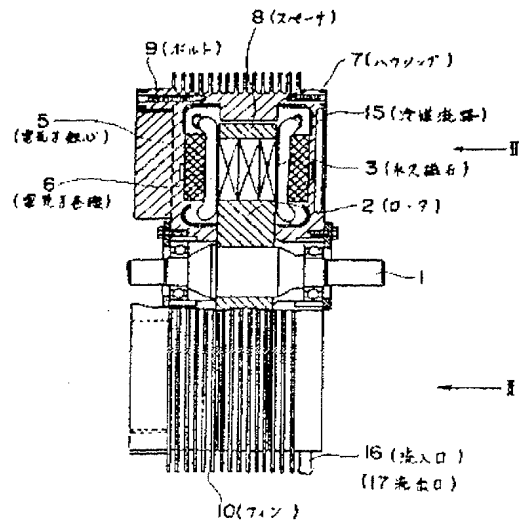
APPLICATION DATE : 13-06-86  
 APPLICATION NUMBER : 61136178

APPLICANT : NISSAN MOTOR CO LTD;

INVENTOR : KANETOSHI KAZUHIKO;

INT.CL. : H02K 9/19 H02K 21/24

TITLE : PERMANENT MAGNET FIELD  
 SYNCHRONOUS MACHINE



ABSTRACT : PURPOSE: To enable sufficient cooling even when the housing at the rotary output side is covered by any device, by a method wherein a cooling medium flow path for flowing of a cooling medium is installed in the housing at the rotary output side.

CONSTITUTION: A permanent magnet field synchronous machine is composed of a rotor 2 having a permanent magnet 3 installed on a rotary shaft 1, an armature core 5 installed on a housing 7, and an armature winding 6. A cooling medium flow path 15 for flowing a cooling medium such as water or oil is installed at the rotary output side of the housing 7. The cooling medium flow path 15 is installed so that the cooling medium flowing from an inlet port 16 is rotated by one revolution around the rotary shaft 1 and flows out of an outlet port 17. In this constitution, the armature winding 6, the armature core 5 or the like can be cooled sufficiently.

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